

Use Attainability Analysis

for

WBID 3608 Trib. to N. PR. Jack's Fk (Pine Branch)

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

Date Received: July 18, 2005

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name (from USGS 7.5' quad): Tributary to North Prong of the Jacks Fork; Pine Branch
8-digit HUC: 11010008
Missouri WBID #: 3608
County: Howell
Upstream Legal Description: SE1/4 NE1/4 Sec. 12 T.28N., R.8W.
Downstream Legal Description: NW1/4 SE1/4 Sec. 13 T.28N., R.8W.
Upstream Coordinates: N. 37.11782      W. 91.76537
Downstream Coordinates: N. 37.09653      W. 91.76693
Discharger Facility Name(s): NA
Discharger Permit Number(s): NA
Number of Sites Evaluated: 3
Name of Surveyor and Telephone Number: Dennis M. Meinert (314) 416-2960
Organization: Department of Natural Resources, SWCP
Position: Soil Scientist

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Dennis M. Meinert

Date: 06/28/05

# Field Data Sheet for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: WB3608-01	Site Location Description: SE1/4 NE1/4 Sec.12 T.28N., R.8W.		
Site GPS Coordinates: N. 37.11782		W. 91.76537	
Date & Time: 6/28/05 4:00 pm		Facility Name: NA	
Personnel: Dave Dowdy, Dennis Meinert		Permit Number: NA	
Current Weather Conditions: Partly Cloudy		Weather Conditions for Past 7 days: Scattered showers	
Photo Ids: Upstream: WBU3608-01	Downstream: WBD3608-01	Other:	

### Uses Observed\*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other: Private property	

### Evidence of Human Use\*:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input checked="" type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheet for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID #: WB3608-01

### Stream Morphology:

#### Upstream View Physical Dimensions:

Riffle	Width (ft): 5'	Length (ft): 49'	Avg. Depth (ft): 1"	Max. Depth (ft): 2"
Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):	

#### Downstream View Physical Dimensions:

Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Pool	Width (ft): 9'	Length (ft): 52'	Avg. Depth (ft): 15"	Max. Depth (ft): 29"
Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):	

#### Substrate\*: (These values should add up to 100%.)

70% Cobble	30% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

20% aquatic vegetation on gravel bars.

#### Water Characteristics\*: (Mark all that apply.)

Odor:	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	Other:

**Comments:** Water from riffle goes under gravel before it enters pool. Minnows observed.

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Dennis M. Meinert Date: 06/28/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

WBID 3608 – Downstream #1



WBID 3608 – Upstream #1



# Field Data Sheet for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: WB3608-02	Site Location Description: NE1/4 SE1/4 SEC.12 T.28N. R.8W.		
Site GPS Coordinates: N 37.11131 W 91.76279			
Date & Time: 6/28/05 2:35 pm		Facility Name: NA	
Personnel: John Morton, Leon Thompson		Permit Number: NA	
Current Weather Conditions: Partly Cloudy		Weather Conditions for Past 7 days: Scattered showers	
Photo Ids: Upstream: WBU3608-02	Downstream: WBD3608-02	Other: WBE3608-02	

### Uses Observed\*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Private property	

### Evidence of Human Use\*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other: Gravel mining downstream.				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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# Field Data Sheet for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID #: WB3608-02

### Stream Morphology:

#### Upstream View Physical Dimensions:

Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft): 60'	Length (ft): 102'	Avg. Depth (ft): 12"	Max. Depth (ft): 22"
Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Flow	Present?	Yes	No	Estimated (ft <sup>3</sup> /sec):

#### Downstream View Physical Dimensions:

Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Pool	Width (ft): 30'	Length (ft): 159'	Avg. Depth (ft): 4"	Max. Depth (ft): 12"
Flow	Present?	Yes	No	Estimated (ft <sup>3</sup> /sec):

#### Substrate\*: (These values should add up to 100%.)

30% Cobble	70% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

50% algae growth on rocks
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#### Water Characteristics\*: (Mark all that apply.)

Odor:	Sewage	Musky	Chemical	None	Other:
Color:	Clear	Green	Gray	Milky	Other:
Bottom Deposit:	Sludge	Solids	Fine sediments	None	Other:
Surface Deposit:	Oil	Scum	Foam	None	Other:

Comments: Beaver damming on upstream pool. Minnows and crayfish observed.

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Signed:  Date: 06/28/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

WBID 3608 – Downstream #2



WBID 3608 – Upstream #2



# Field Data Sheet for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: WB3608-03	Site Location Description: NW1/4 SE1/4 Sec.13 T.28N., R.8W.		
Site GPS Coordinates: N. 37.09653 W. 91.76693			
Date & Time: 6/28/05 2:55 pm		Facility Name: NA	
Personnel: Dennis Meinert, Dave Dowdy		Permit Number: NA	
Current Weather Conditions: Partly Cloudy		Weather Conditions for Past 7 days: Scattered showers	
Photo Ids: Ups pmam: WBU3608-03	Downstream: WBD3608-03	Other:	

### Uses Observed\*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin Diving	<input type="checkbox"/> Scuba diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: None	

### Evidence of Human Use\*:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swing	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: None				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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## Data Sheet B - Site Characterization

Page Two - WBID #: WB3608-03

### Stream Morphology:

#### Upstream View Physical Dimensions:

Riffle	Width (ft):	19'	Length (ft):	21'	Avg. Depth (ft):	2'	Max. Depth (ft):	3'
Run	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
Flow	Present?	Yes	No		Estimated (ft <sup>3</sup> /sec):			

#### Downstream View Physical Dimensions:

Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
Run	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
Pool	Width (ft):	35'	Length (ft):	230'	Avg. Depth (ft):	9"	Max. Depth (ft):	2'
Flow	Present?	Yes	No		Estimated (ft <sup>3</sup> /sec):			

#### Substrate\*: (These values should add up to 100%.)

30% Cobble	70% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
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#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

None
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#### Water Characteristics\*: (Mark all that apply.)

Odor:	Sewage	Musky	Chemical	None	Other:
Color:	Clear	Green	Gray	Milky	Other:
Bottom Deposit:	Sludge	Solids	Fine sediments	None	Other:
Surface Deposit:	Oil	Scum	Foam	None	Other:

**Comments:** Small snails, minnows and crayfish observed.

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Signed: Dennis M. Meinert

Date: 06/28/05

Organization: Department of Natural Resources SWCP

Position: Soil Scientist

WBID 3608 – Downstream #3



WBID 3608 – Upstream #3



STREAM NAME

Pine Branch

PHOTO	WBID	UP	DOWN	USE	COMMENTS
1	3608	X		No use	Riffle
2	3608		X	No use	Pool
3	3608	X		No use	Pool
4	3608		X	No use	Pool
5	3608			Gravel mining	
6	3608	X		No use	Riffle
7	3608		X	No use	Pool
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